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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/936,891	10/19/2001	Emine Capan	P/2107-181	2941	
2352 7	7590 12/10/2002				
OSTROLENK FABER GERB & SOFFEN			EXAMINER		
	E OF THE AMÉRICAS NY 100368403	·	KRISHNAN, G	KRISHNAN, GANAPATHY	
			ART UNIT	PAPER NUMBER	
			1623		
			DATE MAILED: 12/10/2002	$\wp$	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/936,891	CAPAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ganapathy Krishnan	1623			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da rill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		J			
1) Responsive to communication(s) filed on					
2a) This action is <b>FINAL</b> . 2b) ☐ This	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4)⊠ Claim(s) 1-18 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-18</u> are subject to restriction and/or e	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Exa	aminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents	have been received in Applicat	ion No			
<ul> <li>3. Copies of the certified copies of the prioril</li> <li>application from the International Bure</li> <li>* See the attached detailed Office action for a list of</li> </ul>	eau (PCT Rule 17.2(a)).	•			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a)  The translation of the foreign language prov	visional application has been rec	ceived.			
15) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. §§ 120	Jand/or 121.			
Attachment(s) ) ☑ Notice of References Cited (PTO-892)	4\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	v (DTO 442) Dames No (e)			
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1 and 8-16, drawn to industrial conversion of carbohydrates, alcohols, aldehydes or polyhydroxy compounds in aqueous phase using metal catalysts formed from polymer stabilized nanoparticles.

Group II, claim(s) 2 and 3, drawn to the conversion being oxidation of glucose, fructose, sorbose, sucrose, and/or isomaltose.

Group III, claim(s) 4 and 5, drawn to the conversion being hydrogenation of glucose, fructose, xylose, sorbose, isomaltulose, isomaltulose, trehalulose, maltose and/or lactose. Group IV, claim(s) 6 and 7 drawn to the conversion being reductive amination of glucose, fructose, xylose, sorbose, isomaltulose, isomaltulose, trehalulose, maltose and/or lactose.

The inventions listed as Groups I-IV do not related to a single inventive concept under PCT Rule 13.1.

The technical feature linking groups is the use of metal catalyst formed from polymerstabilized nanoparticles for the industrial conversion recited in Claim 1. Application/Control Number: 09/936,891

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However, Crooks et al (Angew. Chem. Int. Ed. 1999, vol. 38(3), 364-365) teach the use of noble metal nanoparticles stabilized within dendrimer interiors as hydrogenation catalysts. Therefore, the special technical feature linking the inventions of groups I-IV does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over prior art.

Because of the divergent subject matter of Groups I-IV, the search for one is not coextensive with the others and each must be searched independently and therefore this would entail a burdensome search.

The applicant is required to elect Group I and any one of Group II, III or IV. The applicant is also further required to elect one species from carbohydrates, alcohols, aldehydes or polyhydroxy compounds.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ganapathy Krishnan whose telephone number is 703-305-4837. The examiner can normally be reached on 8.30am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 703-308-4624. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

GK

December 8, 2002

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